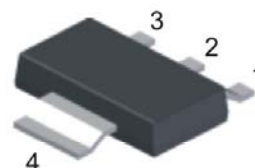


Announcing Medium Power SOT-223 Bipolar Junction Transistor Product Line

Product Highlights

DZT851, DZT853, DZT951, DZT953

- Single Transistors in SOT-223 Package
- Highest Collector Current Rating Among Diodes, Inc.'s Bipolar Junction Transistor Product Line (5A for PNP and 6A for NPN)
- Low Collector-to-Emitter Saturation Voltage $V_{CE(sat)}$
- Complementary Pairs:
 - DZT851 (NPN) and DZT951 (PNP)
 - DZT853 (NPN) and DZT953 (PNP)



DZT3150

- Single 5A NPN Transistors in SOT-223 Package
- High Current Gain
- Low Collector-to-Emitter Saturation Voltage $V_{CE(sat)}$

Key Device Specification

Part No.	Description	h_{FE}			$V_{CE(sat)}$		
		Range	@ V_{CE} (V)	I_C (A)	Max	@ I_C (A)	I_B (A)
DZT853	6A/100V NPN	100~300	2	2	0.34V	5	0.5
DZT953	5A/100V PNP	100~300	1	1	0.42V	4	0.4
DZT851	6A/60V NPN	100~300	1	2	0.375V	6	0.3
DZT951	5A/60V PNP	100~300	1	2	0.460V	5	0.5
DZT3150	5A/25V NPN	250~550	2	0.5	0.5V	4	0.2

Availability

- **Samples:** *Now Available!*
- **Production Quantity Lead Time:** 6 – 10 weeks
- **Data Sheets Available NOW at:** www.diodes.com

To download selected data sheet, enter p/n in our website Product Data Sheet SEARCH, or click:

DZT853	6 Amperes / 100 Volts (NPN)	http://www.diodes.com/datasheets/ds30737.pdf
DZT953	5 Amperes / 100 Volts (PNP)	http://www.diodes.com/datasheets/ds30941.pdf
DZT851	6 Amperes / 60 Volts (NPN)	http://www.diodes.com/datasheets/ds30738.pdf
DZT951	5 Amperes / 60 Volts (PNP)	http://www.diodes.com/datasheets/ds30786.pdf
DZT3150	5 Amperes / 25 Volts (NPN)	http://www.diodes.com/datasheets/ds30785.pdf

Crosses from Industry Parts

Diodes, Inc.	Zetex	Central Semi
DZT853	FZT853	-
DZT953	FZT953	-
DZT851	FZT851	-
DZT951	FZT951	-
DZT3150	-	CZT3150

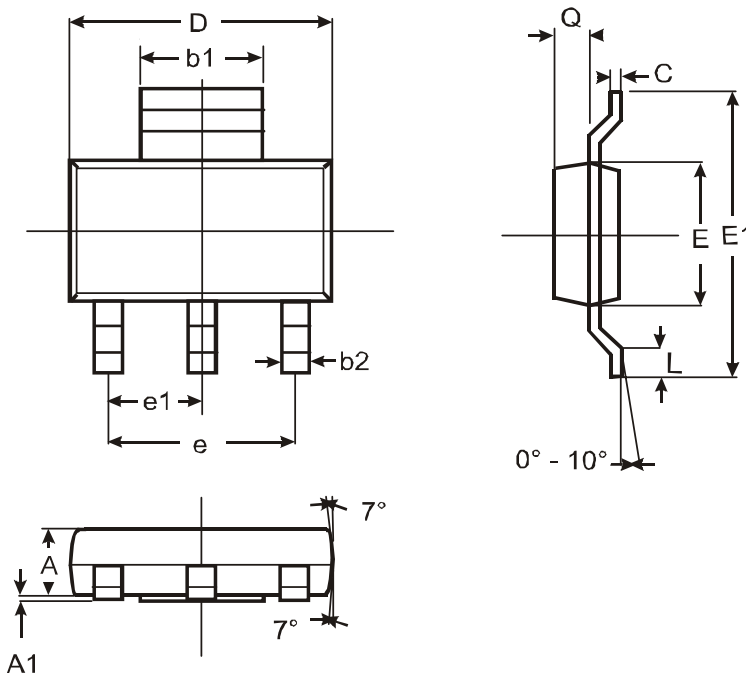
End-User Applications

- Pass Element for Load Switches
- Pass Element for LDOs/Linear Regulators
- Power Management Circuits
- Inverters
- Lighting Ballasts
- Motor and Solenoid Drivers
- Buffering Regulator Circuits
- Switching Regulator Circuits
- DC-DC Converters
- Voltage Regulation

Solderability & Environmental Highlights

- RoHS Compliant
- “Green” (No Bromine, Antimony) Molding Compound
- Pb-Free, 100% Matte Tin Plating
- Withstands 260°C Solder Reflow
- Meets Moisture Sensitivity Level (MSL) 1

Package Outline Dimensions (mm)



SOT-223			
Dim	Min	Max	Typ
A	1.55	1.65	1.60
A1	0.010	0.15	0.05
b1	2.90	3.10	3.00
b2	0.60	0.80	0.70
C	0.20	0.30	0.25
D	6.45	6.55	6.50
E	3.45	3.55	3.50
E1	6.90	7.10	7.00
e	—	—	4.60
e1	—	—	2.30
L	0.85	1.05	0.95
Q	0.84	0.94	0.89
All Dimensions in mm			